

CLAIMS

1. A communication apparatus, comprising:

first communication means for communicating with an electronic key device in which at least electronic key information is stored;

second communication means for transmitting information through a communication network;

a storage section for storing electronic key information;

door lock control means for comparing the electronic key information received from said electronic key device through said first communication means and the electronic key information stored in said storage section with each other and controlling a lock apparatus for a door based on the result of the comparison;

user recognition means for recognizing a user of said electronic key device based on the information received from said electronic key device through said first communication means; and

sender control means for controlling based on the result of the recognition by said user recognition means so that information regarding passing in/out of the user of said electronic key device is transmitted to a notification destination determined in advance through

said second communication means.

2. The communication apparatus according to claim 1, further comprising:

setting storing means for accepting and storing setting of the user of said electronic key device with regard to whom information regarding the passing in/going out is to be transmitted to the notification destination;

said sender control means transmitting information regarding passing in/out of the set user of said electronic key device to the notification destination through said second communication means.

3. The communication apparatus according to claim 2, wherein

said setting storage section accepts and stores a setting input of time information corresponding to the user of said electronic key device together with the user, and

said sender control means controls, if the set user of said electronic key device is not recognized by said user recognition means even after the time corresponding to the time information of the setting input elapses, information regarding that passing in/out of the user of said electronic key device does not occur is transmitted to the notification destination through said second

communication means.

4. The communication apparatus according to claim 3, wherein

the notification destination is the set user of said electronic key device, and the information regarding that passing in/out of the user of said electronic key device does not occur is information for urging the user of said electronic key device to perform the passing in/out.

5. The communication apparatus according to claim 3, wherein

the notification destination is a person different from the set user of said electronic key device.

6. The communication apparatus according to claim 5, wherein

when the set user of said electronic key device is recognized by said user recognition means after the time corresponding to the set time information elapses, the information regarding coming in/going out of the user of said electronic key device is transmitted to the notification destination through said second communication means.

7. The communication apparatus according to claim 1, wherein

the electronic key information is formed from identification information with which the user of said electronic key device can be identified, and

said user recognition means recognizes the user of said electronic key device who comes in/goes out through said door based on the electronic key information received from said electronic key device.

8. The communication apparatus according to claim 1, wherein

the electronic key information is identification information allocated and unitarily managed so that the same electronic key information may not exist,

said communication apparatus further comprises a personal information storage section for storing personal information with which an owner of said electronic key device can be specified corresponding to the electronic key information and means for comparing the electronic key information received from said electronic key device and the electronic key information stored in said storage section with each other and managing coming in/going out of the owner of said electronic key device through said door based on the result of the comparison, and

said user recognition means recognizes the user of said electronic key device who comes in/goes out through

said door based on the electronic key information
received from said electronic key device.